



# **CALFED**

## **STAGE 1 MILESTONES**

The CALFED Bay-Delta Program is a State-Federal-local collaborative process which is building a framework to manage California's water system.

The CALFED plan has four distinct goals:

1. To restore the ecological health of the Bay-Delta, the largest estuary on the West Coast.
2. To improve water supply reliability for the State's growing cities and farms that use water from the Delta.
3. To protect the drinking water quality for the 22 million Californians who rely on Delta water for their supplies.
4. To provide long-term protection and maintenance for the 1,100 miles of levees that make up today's Delta.

This plan provides a specific set of actions and proposed investments to meet those goals and to assure a balanced approach to implementation. Implementation will not occur overnight, but this document, and the final environmental documents and Record of Decision that will follow, will provide a long-awaited blueprint to solving long standing conflicts through a sustained effort by CALFED agencies and stakeholders.

### **Stage 1: 2000 - 2007**

- \$1 billion invested in Ecosystem Restoration Projects (ERP) in the Delta.
  - Restore habitat in Delta, Suisun Bay and Marsh, and the Yolo Bypass, including tidal wetlands, riparian habitat, and 8,000-12,000 acres of wildlife-friendly agricultural lands.
  - Restore habitat and hydraulics on Frank's Tract.
  - Implement restoration projects on selected streams and rivers in the Delta, including Clear Creek, Deer Creek, Cosumnes River, San Joaquin River and Tuolumne River.
  - Secure dependable access to 100,000 acre-feet of water per year for the Environmental Water Account (EWA).
  - Complete restoration of the Sacramento River meander corridor, including easement or purchase of 30,000 acres.
  - Implement invasive species program.
  - Improve fish passage through modification or removal of small diversion dams on Butte Creek; Wildcat, Coleman, South Fork, and Eagle Canyon Dams on Battle Creek; McCormick-Saeltzer Dam on Clear Creek; and Clough Dam on Mill Creek.
- \$300 million invested in Watershed Program.
  - Establish grant program to fund local projects that contribute substantially to CALFED goals

- \$1 billion invested in storage projects, increasing water storage by 1.5 million acre-feet.
- With completion of conveyance improvements and modifications, State Water Project (SWP) export capability is approximately 10,000 cfs.
- Regulatory assurance under the Federal Endangered Species Act will be provided for the first 4 years of Stage 1, based on the availability of water from existing regulation, the EWA combined with the ERP, and the ability to obtain additional assets should they be necessary. The Federal and State fishery agencies will provide assurance, subject to legal requirements, that there will be no reductions beyond existing regulatory levels in deliveries to State and Federal project water users resulting from measures to protect fish.
- Water supply reliability improved through storage, conveyance, EWA, water use efficiency, water quality, and water transfers programs.
- \$800 million invested in water quality programs.
- Up to 1.3 million acre-feet of water made available through Water Use Efficiency Program.
  - Provide \$50 million annually in financial and technical assistance to assist water districts in meeting water management plans.
  - Invest \$1 billion in loan and grant programs for urban water use efficiency programs.
  - Invest \$1.25 billion in loan and grant programs for agricultural water use efficiency programs.
  - Develop a \$1.6 billion program for water recycling capital improvement projects.
- Invest \$450 million in Delta levee system maintenance and improvements.
  - Institute a program for using Bay and Delta dredge material to repair Delta levees and restore Delta habitat.

## 2000

- \$50 million from Proposition 204 allocated for ERP projects in FY 2000-01.
- Federal feasibility study for expanding Shasta Lake by 300,000 acre-feet authorized.
- Reconnaissance study of in-Delta storage project of approximately 250,000 acre-feet completed.
- Study of bypass canal to the San Felipe Unit at the San Luis Reservoir for potential effective storage capacity enhancement of up to 200,000 acre-feet funded through Proposition 13.
- Joint planning program for Sites Reservoir developed with local Sacramento Valley water interests.
- Study of screened diversion facility on the Sacramento River at Hood of up to 4,000 cfs initiated.
- Comprehensive study initiated to develop 250,000-700,000 TAF of additional storage in the upper San Joaquin River watershed, which includes possible enlargement of Millerton Lake. .
- Studies of improved operation of the Delta Cross Channel begin.

- Specific study plan of cross-valley interconnections in the southern San Joaquin Valley developed with San Joaquin Valley water interests.
- Public advisory committee established to provide technical assistance to State and Federal agencies on water use efficiency and conservation programs.
- Independent review panel develops definition of appropriate measurement of water deliveries as they relate to agricultural surface and groundwater usage. CALFED agencies work with the California State Legislature to develop and enact legislation requiring the appropriate measurement of all water uses in the State.
- Legislation to clarify State's wheeling laws for water transfer conveyance availability recommended.
- Regional stakeholder workshops on streamlined transfer approval procedures for certain kinds of transactions (intra-regional, short-term, dry-year transfers) convened.
- Water transfer information web site, "On-Tap," operational; provides real-time information on availability for water transfer opportunities and ongoing activity.
- Delta Emergency Management Plan refined.
- CALFED Bay-Delta Program Science Conference held.
- Independent Ecosystem Science Board appointed to focus on ecosystem restoration issues.
- Indicators established for monitoring progress in ecosystem restoration, water quality improvement, water supply reliability, and levee system stability.
- First-draft designs of aquatic and terrestrial monitoring programs released for public review.
- CALFED agencies approve a "Framework Agreement" for the interim governance structure of CALFED.

## 2001

- Interagency watershed advisory team established.
- Agreements made with local project proponents for joint planning and development of groundwater and conjunctive use projects in the Sacramento and San Joaquin Valleys.
- Feasibility studies for local groundwater and conjunctive use projects in the Sacramento and San Joaquin Valleys initiated.
- Agreement developed with Contra Costa Water District and other partners for expansion of Los Vaqueros Reservoir by 400,000 acre-feet. Authorization and funding secured and feasibility studies begun.
- Study of cross-valley interconnections in the San Joaquin Valley funded and initiated.
- Initial evaluation of Bay Area Blending/Exchange Project feasibility completed.
- Necessary legislation for transfer permit streamlining identified.
- California Water Transfers Information Clearinghouse established to disseminate information on groundwater impacts, cumulative impacts, and local socioeconomic impacts of transfers.
- Best Management Practices for reuse of dredged materials on levees developed.
- Delta Risk Management Strategy that identifies risk to Delta levees, evaluates consequences, and recommends actions developed.

- Scientific consensus reached on the set of ecological, mathematical, and operational models for the Bay-Delta system and its infrastructure to form the basis and evaluation of the success of adaptive management actions.

## 2002

- Planning for restoration on Frank's Tract in the Delta completed.
- Watershed performance measures and monitoring protocols developed.
- Report on the performance of feasibility studies on groundwater and conjunctive use projects in the Sacramento and San Joaquin Valleys completed.
- Project plan developed for in-Delta storage project and complete any additional environmental documentation.
- Environmental documentation and preliminary design of bypass canal at San Luis Reservoir completed.
- Ultra-violet disinfection plant demonstration project initiated.
- Desalination demonstration project initiated.
- Comprehensive evaluation of necessary physical modifications to control runoff into the California Aqueduct initiated.

## 2003

- Feasibility study and preliminary design for expansion of Shasta Lake completed.
- Feasibility study for expansion of Los Vaqueros Reservoir completed.
- Authorization and funding obtained and begin construction of bypass canal to San Luis Reservoir.
- Facilities design and funding plan for construction of new fish screens at Clifton Court Forebay and Tracy pumping Plant completed.
- Funding plan for operable barriers in the South Delta completed.
- Environmental studies of floodway improvements on the Lower San Joaquin River and Lower Mokelumne River completed.
- Studies completed and recommendations made for improved operation of the Delta Cross Channel.
- Water quality and fish effects studies completed and recommendations developed for screened diversion facility at Hood.
- Urban Water Management Plan Certification Process developed.
- Best source reduction methods to address drainage problems in the San Joaquin Valley implemented.
- Comprehensive State drinking water policy for Delta and upstream tributaries established.
- Comprehensive monitoring and assessment program for source water protection developed.
- Delta Drinking Water Council assesses studies and water quality targets, and recommends actions.

- Improvements and modifications to the conveyance system allows SWP facilities to increase pumping to 8,500 cfs between March 15 and December 15.

## 2004

- Programs to improve water supply reliability are on-line.
- Early stages of groundwater and conjunctive use projects in the Sacramento and San Joaquin Valleys implemented.
- Project design and funding plan of floodway improvements on the Lower San Joaquin River and lower Mokelumne River completed
- National Environmental Policy ACT (NEPA) process completed, obtain Federal authorization and funding obtained, and expansion of Shasta Lake begun.
- Environmental review and documentation for Sites Reservoir completed.
- Facilities design of operable barriers in the South Delta completed.
- Environmental work, project design, and funding plan for intertie between the SWP and Central Valley Project (CVP) facilities at or near Tracy completed. Construction begun.
- Appropriate watershed management programs to control runoff into the California Aqueduct are developed and implemented.

## 2005

- Environmental review, documentation and preliminary design for expansion of Los Vaqueros Reservoir completed.
- Authorization and funding obtained and implementation of in-Delta storage project begun.
- Feasibility study of upper San Joaquin River storage begun.
- Construction of initial fish screens at Clifton Court Forebay and Tracy Pumping Plant completed. Operations and performance testing begun.
- Construction of floodway improvements on the Lower San Joaquin River and lower Mokelumne River begun.
- Environmental review of recommended program at Hood completed. If fish protection conditions are met and facility is found necessary, implementation begun.
- Construction of SWP-CVP intertie at or near Tracy completed.
- Evaluation of additional necessary infrastructure improvements for Bay Area Blending/Exchange Project begun.
- Physical improvements to control runoff into the California Aqueduct developed and implemented.

## 2006

- Authorization and funding obtained and expansion of Los Vaqueros Reservoir initiated.
- Environmental review and documentation of upper San Joaquin River storage completed.

- Pilot projects, such as agroforestry, to address drainage problems in the San Joaquin Valley completed.
- Appropriate source control measures for drinking water implemented.

### 2007

- Locally managed and controlled groundwater and conjunctive use projects in the Sacramento and San Joaquin Valleys are on line, with between 500,000 and 1 million acre-feet of storage capacity.
- Head of Old River Barrier and interior agricultural barriers in the South Delta completed.
- Initiate operation of Hood screened diversion facility initiated (if constructed).
- Delta Drinking Water Council assesses studies and water quality targets and recommends actions.
- Practicability of UV disinfection and desalination projects evaluated and time lines for full-scale implementation developed.